

AMENDMENTS TO THE CLAIMS

1 (currently amended) A frame ~~generatingsynchronization~~ method comprising:
inserting a synchronous word into data at a position determined based on a noise cycle of a transmission line in order to generate a frame; and
~~composing data and a synchronous word to generate a frame;~~
transmitting the generated frame from a transmitter to a receiver via thea transmission line;
~~wherein said composing the data and the synchronous word arranges the synchronous word based on noise cycle of the transmission line.~~

2 (currently amended) A frame ~~generatingsynchronization~~ method as recited in claim 1, wherein said position~~the synchronous word~~ is arranged according to a predetermined arrangement algorithm.

3 (currently amended) A frame ~~generatingsynchronization~~ method as recited in claim 2, wherein a parameter of the predetermined arrangement algorithm comprises at least one of a length of the synchronous word and an arrangement interval of the synchronous word.

4 (currently amended) A frame ~~generatingsynchronization~~ method as recited in claim 34, wherein the length of the synchronous word is approximately~~almost~~ equal to a multiple of a~~the length of a multiple~~ of the noise cycle by a natural number.

5 (currently amended) A frame ~~generatingsynchronization~~ method comprising:
inserting a plurality of synchronous words into data at a position determined based on a noise cycle of a transmission line in order to generate a frame; and
~~composing data and a plurality of synchronous words to generate a frame;~~
transmitting the generated frame from a transmitter to a receiver via thea transmission line;

wherein said ~~composing the data and the plurality of synchronous words~~
~~arranges the plurality of synchronous words based on noise cycle of the transmission line.~~

6 (currently amended) A frame ~~generatingsynchronization~~ method as recited in claim 5,
wherein said inserting a plurality of synchronous words into data~~composing the data and~~
~~the synchronous words~~ arranges the plurality of synchronous words over a section of
frame as long as the noise cycle.

7 (currently amended) A frame ~~generatingsynchronization~~ method as recited in claim 5,
wherein ~~at~~ the length of an arrangement interval of at least two~~one pair~~ of the plurality of
synchronous words is different from ~~at~~ the length of the noise cycle.

8 (currently amended) A frame ~~generatingsynchronization~~ method as recited in claim 5,
wherein at least two~~one pair~~ of the plurality of synchronous words are arranged using the
same pattern.

9 (currently amended) A frame ~~generatingsynchronization~~ method as recited in claim 1,
wherein ~~at~~ the length of the noise cycle is the length of a time interval whose noise level in
the transmission line is beyond a predetermined threshold.